

ABSTRACT

The present invention synchronizes the clock of the power processing devices and digital signal processing devices in an audio system. The system may include a clock, a digital signal processor (DSP), and a pulse width modulated (PWM) power processing device wherein the digital signal processor and the power processing device would use
5 the clock for their operation. The DSP and the PWM power processing device may use, for operation, the frequency of the clock, or a multiple, integer fraction thereof, such that all clocks are synchronized and all potential sum and/or difference frequencies are predetermined and fall outside the audible frequency range. The may also include a
10 sensor capable of detecting and reporting the clock information either through a metal wire, fiber optic wire, infrared or radio frequency link, which can allow the power processing devices to use the same clock as the DSP.